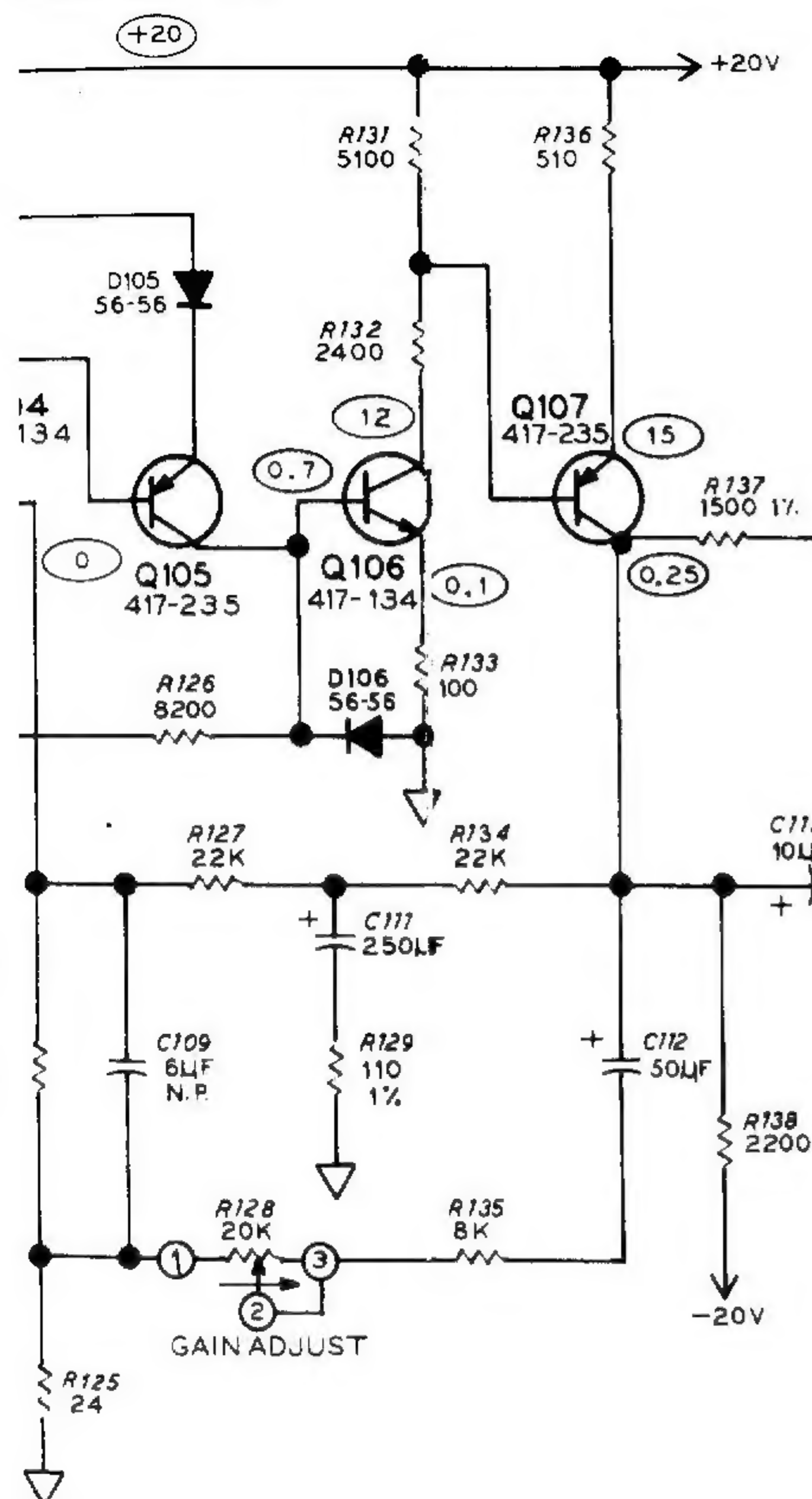
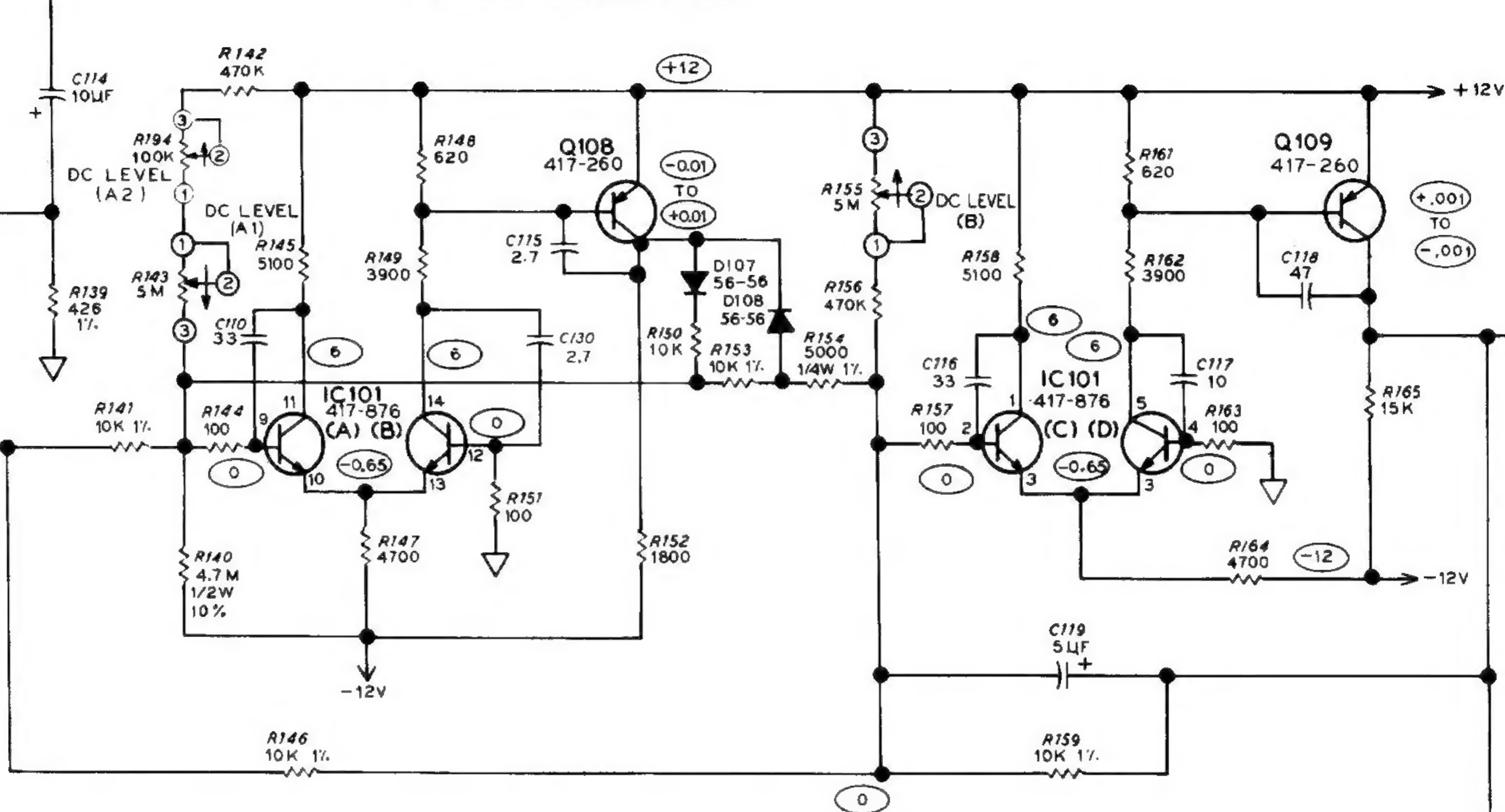


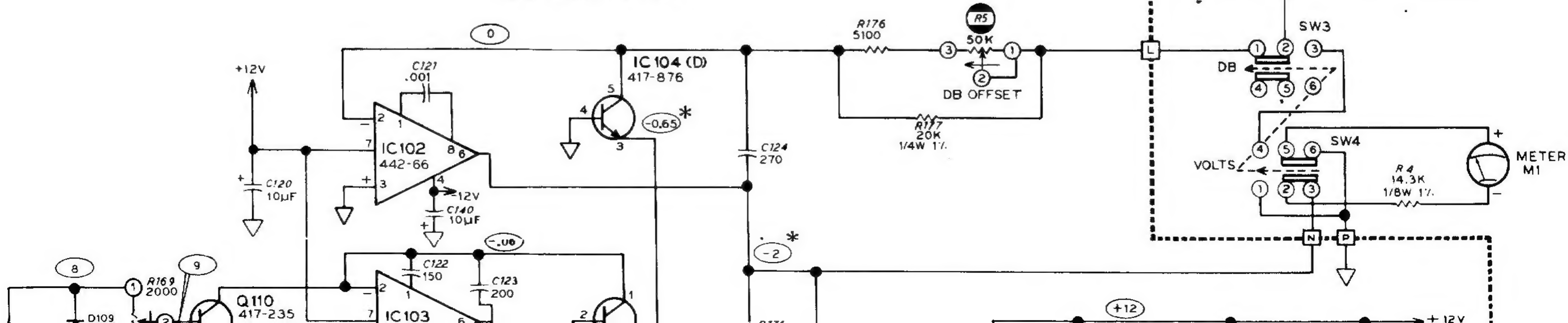
AMPLIFIER

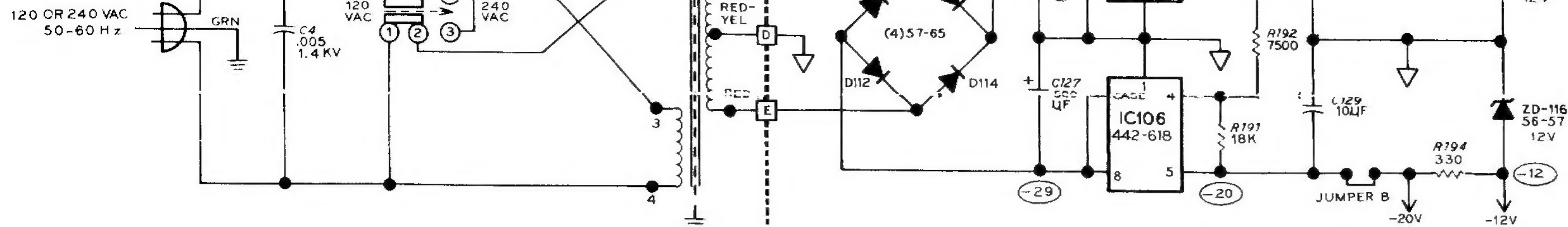


AC-DC CONVERTER



LOG CONVERTER





POWER SUPPLY

SCHEMATIC OF THE HEATHKIT® AC VOLTMETER MODEL IM-5238

Part of 595-1868-04

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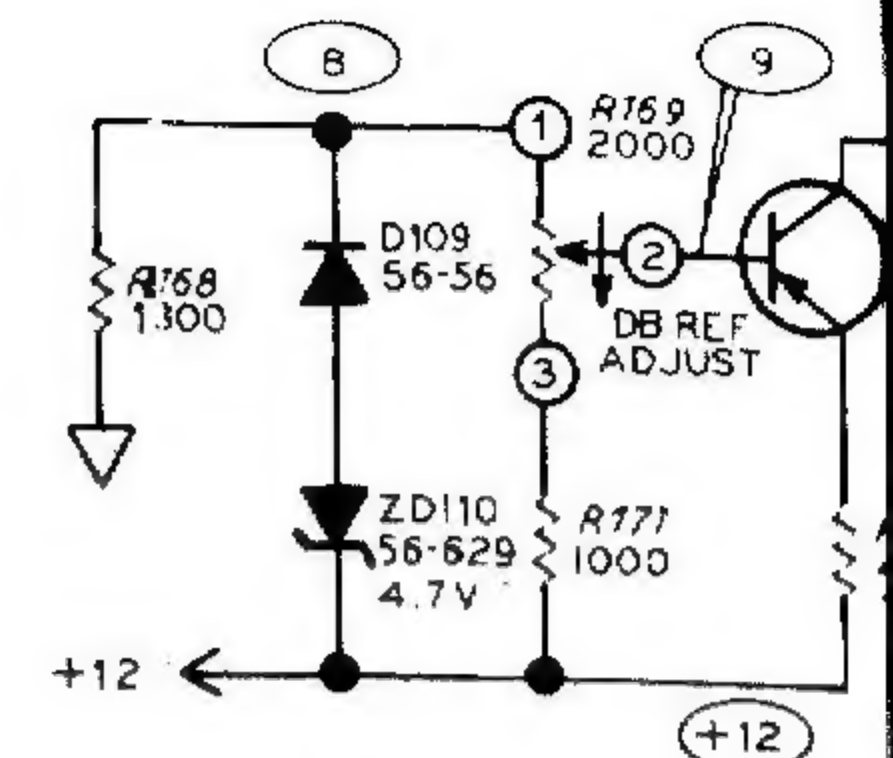
NOTES:

- THE COMPONENT IDENTIFICATION NUMBERS ON THE AC VOLTMETER ARE IN THE FOLLOWING GROUPS:

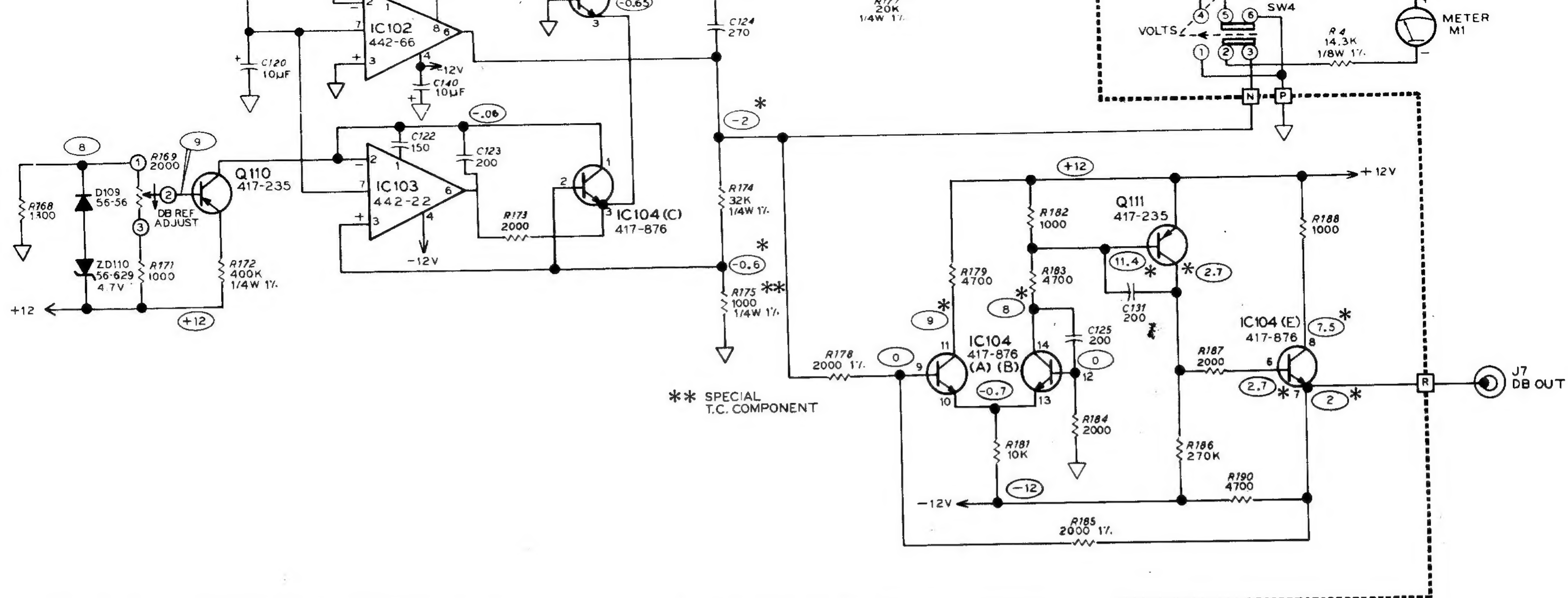
1-99 CHASSIS-MOUNTED PARTS

101-199 CIRCUIT BOARD PARTS

- RESISTOR VALUES ARE IN OHMS (Ω): K=1000, M=1,000,000.
- RESISTORS ARE 1/4-WATT, 5% TOLERANCE UNLESS OTHERWISE NOTED.
- CAPACITOR VALUES LESS THAN 1 ARE IN μ F (MICROFARADS); CAPACITOR VALUES OF 1 OR GREATER ARE IN pF (PICOFARADS), UNLESS OTHERWISE NOTED.
- THE RANGE SWITCH IS SHOWN IN ITS COUNTERCLOCKWISE (1mV) POSITION.
- INDICATES A DC VOLTAGE MEASUREMENT TAKEN WITH A HIGH-INPUT IMPEDANCE VOLTMETER FROM THE POINT INDICATED TO CHASSIS GROUND. TOLERANCE; $\pm 20\%$.

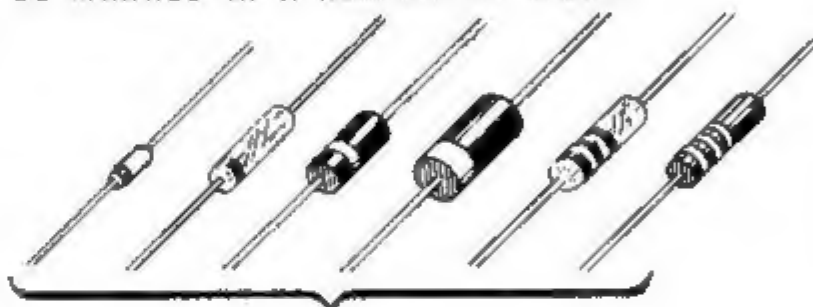


- * INDICATES A DC VOLTAGE MEASUREMENT TAKEN WITH A HIGH-INPUT IMPEDANCE VOLTMETER FROM THE POINT INDICATED TO CHASSIS GROUND. TOLERANCE; $\pm 20\%$.
- ▽ INDICATES CIRCUIT BOARD GROUND.
- ≡ INDICATES A CHASSIS GROUND.
- ↺ INDICATES COUNTERCLOCKWISE ROTATION.
- INDICATES A CIRCUIT BOARD GROUND.
- INDICATES A COMPONENT IDENTIFICATION NUMBER.
- SIMICONDUCTOR IDENTIFICATION NUMBER.
- X-RAY VIEW IS IN THE

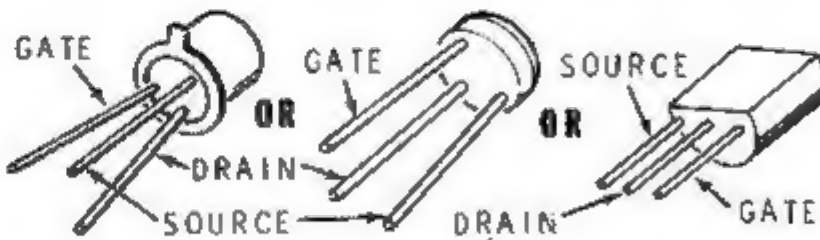
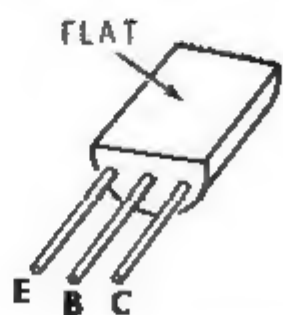
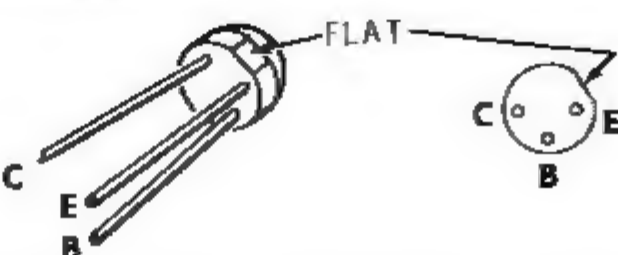


SEMICONDUCTOR IDENTIFICATION CHARTS

DIODES

COMPONENT	HEATH PART NO.	MANUFACTURER'S NUMBER	IDENTIFICATION
D101 THROUGH D109	56-56	1N4149	<p>IMPORTANT: THE BANDED END OF DIODES CAN BE MARKED IN A NUMBER OF WAYS.</p>  <p>BANDED END</p>
ZD110	56-629	BZX83C3V	
D111 THROUGH D114	57-65	1N4002	
ZD115, ZD116	56-57	1N716A	

TRANSISTORS

COMPONENT	HEATH PART NO.	MANUFACTURER'S NUMBER	IDENTIFICATION
Q101	417-802	E304	
Q102, Q105, Q107, Q110, Q111	417-235	2N4121	
Q103, Q104, Q106	417-134	MPS6520	
Q108, Q109	417-260	2N4258A	

INTEGRATED CIRCUITS

COMPONENT	HEATH PART NO.	MANUFACTURER'S NUMBER	BASE DIAGRAM (TOP VIEW)
IC101, IC104	417-876	CA3046	
IC103	442-22	741	
IC102	442-66	308	
IC105	442-617	78MGC	IDENTIFICATION
IC106	442-618	79MGC	